AIVIJID ALI DO-I I I I JICJ	SSE (Science) dis 147 30 cmi	
NUMERICAL 10 <sup>TH</sup>	$pH = -log4 - log10^{-1}$	$[OH^{-}] = 2x0.020 M$
ITOTILE TO	= -0.6 + 1	= 4x10-2 M
CHAPTER # 09	= 0.4	$pOH = -log(4x10^{-2})$
$N_2O = 1.1 \text{ mol/dm}^3$	pOH = 14 - 0.4	= 1.40
$N_2 = 3.90 \text{ mol/dm}^3$	= 13.6	pOH + pH = 14
$O_2 = 1.95 \text{ mol/dm}^3$	Ionization of KOH 2	pH = 14 - 1.40
$2N_2O \leftarrow ==== \rightarrow 2N_2 + O_2$	KOH <del>←===== &gt;</del> K <sup>+</sup> + OH <sup>-</sup>	= 12.6
$K_c = [N_2]^2 [O_2]/[N_2O]^2$	0.1 مولريو ٹاشيم ہائڈر وآ کسائڈ میں 0.1 مولر	0.00030 M of HClO4 4.4
$= [3.90]^2[1.95]/[1.1]^2$	• 1	$HCIO_4 \leftarrow === \rightarrow H^+ + CIO_4^-$
$= [15.21] [1.95]/[1.21]^2$	ہاکڈروآ کسائڈ آئن پیدا ہوں گے 	$[OH^{-}] = 1x0.00030 M$
$= 24.51 \text{mol/dm}^3$	$[OH^{-}] = 1X10^{-1} M$	$= 3x10^{-4} M$
	pOH = -log[OH ]	$pH = -log(3x10^{-4})$
$HI = 0.078 \text{ mol/dm}^3$	$= -\log[10^{-1}]$	= 3.52
$H = 0.011 \text{ mol/dm}^3$	= -log10 <sup>-1</sup>	pOH + pH = 14
$l_2 = 0.011 \text{ mol/dm}^3$	= 1	pOH = 14 – 3.52
$2HI \leftarrow === \rightarrow H_2 + I_2$	pH = 14 - 1	= 10.48
$K_c = [H_2][I_2]/[HI]^2$	= 13	0.55 M of NaOH 4.5
$= [0.01] [0.011]/[0.078]^2$	Ionization of HNO <sub>3</sub> 3	NaOH ←====→ Na <sup>+</sup> + OH <sup>-</sup>
= 0.019	$HNO_3 \leftarrow ==== \rightarrow H^+ + NO_3^-$	$[OH^{-}] = 1 \times 0.55 \text{ M}$
T = 1500 K	0.004 مولر نا ئيٹرك ايسڈ ميں 0.004 مولر	$= 55 \times 10^{-2} \text{ M}$
$K_c = 1.1 \times 10^{-5}$		$pOH = -log(55x10^{-2})$
$N_2 = 1.7 \times 10^{-3} \text{ mol/dm}^3$	ہائڈرو جن آئن پیدا ہوں گے	= 0.26
$O_2 = 6.4 \times 10^{-3} \text{ mol/dm}^3$	$[H^{+}] = 1X0.004 M$	pOH + pH = 14
$N_2 + O_2 \leftarrow ==== \rightarrow 2NO$	$pH = -log(4x10^{-3})$	pH = 14 - 0.26
$K_c = [NO]^2/[N_2][O_2]$	$= -[\log 4 + \log 10^{-3}]$	= 13.74
$1.1 \times 10^{-5} = \frac{[NO]^2}{1.1 \times 10^{-5}}$	$= -\log 4 - \log 10^{-3}$	
$[1.7X10^{-3}][6.4X10^{-3}]$ $[NO]^2=1.1X10^5X1.7X10^3X6.4X10^3$	= -0.602 + 3	0.55 M of HCl $\leftarrow$ 4.6 HCl $\leftarrow$ ==== $\rightarrow$ H <sup>+</sup> + Cl <sup>-</sup>
[NO] <sup>2</sup> =1.1X10 <sup>-3</sup> X1.7X10 <sup>-3</sup> X6.4X10 <sup>-3</sup>	= 3 - 0.602	
$[NO]^2 = 11.96X10^{-11}$	= 2.4	$[H^{+}] = 1x0.55 M$ = 55x10 <sup>-3</sup> M
$= 1.196 \times 10^{-10}$	pOH = 14 - 2.4	^
دونوں طرف جذر لی	= 11.6	$pH = -log(55x10^{-3})$ = 1.26
$NO = 0.09x10^{-5} \text{ mol/dm}^3$	0.15 M of HI 4.1	pOH + pH = 14
$N_2 = 0.3 \text{ mol/dm}^3$	HI <del>←===== →</del> H <sup>+</sup> + I <sup>-</sup>	pOH = 14 – 1.26
$H_2 = 0.50 \text{ mol/dm}^3$	$[H^{+}] = 1X0.15 M$	= 12.74
$K_c = 0.50 \text{ mol/dm}^{-2} \text{dm}^6$	$= 15X10^{-2} M$	
$N_2 + 3H_2 \leftarrow = = \Rightarrow 2NH_3$	$pH = -log(15x10^{-2})$	0.55 M of Ca(OH) <sub>2</sub> 4.7
$K_c = [NH_3]^2/[N_2] [H_2]^3$	= 0.82	$Ca(OH)_2 \leftarrow = \rightarrow Ca^+ + 2OH^-$
$K_c = [NH_3]^2/[0.3][0.50]^3$	pOH + pH = 14	[OH-] = 2x0.55 M
$[NH_3]^2 = 0.50x[0.3][0.50]^3$	pOH = 14 – pH	$= 11 \times 10^{-2} \text{ M}$
$[NH_3]^2 = 0.01875$	= 14 - 0.82	$pOH = -log(11x10^{-2})$
دونوں طرف مذر لی	= 13.12	= 0.96
$NH_3 = 0.136 \text{ mol/dm}^3$	0.040 M of KOH 4.2	pOH + pH = 14
	KOH ←====→ K <sup>+</sup> + OH <sup>-</sup>	pH = 14 – 096
CHAPTER # 10	$[OH^{-}] = 1X0.040 M$	= 13.04
Ionization of H <sub>2</sub> SO <sub>4</sub>	$= 4X10^{-2} M$	AMJID ALI
$H_2SO_4 \leftarrow === \rightarrow 2H^+ + SO_4^{1/2}$	$pOH = -log(4x10^{-2})$	SSE (Science)
0.2 مولر سلفيورك ايسٹر ميں 0.2 مولر لے لحاظ سے	= 1.40	•
	pOH + pH = 14	0344-7763733
دو گنا ہائڈر دوجن آئنز پیدا ہوں گے	pH = 14 - 1.40	PAKISTAN
$[H^{+}] = 2X2X10^{-1}M$	= 12.6	LIVE
$pH = -log(4x10^{-1})$	0.020 M of Ba(OH) <sub>2</sub> 4.3	
$= -(\log 4 + \log 10^{-1})$	$Ba(OH)_2 \leftarrow == \rightarrow Ba^+ + 2OH^-$	LONG

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